

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24533

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B21D 53/02; B32B 3/12; C22F 1/00  
US CL : 29/890, 890.03; 148/519, 522; 428/593

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 29/890, 890.03; 148/519, 522; 428/593

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST-search terms include honeycomb\$, extrud\$, channel\$, metal\$

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,514,347 A (OHASHI et al.) 07 May 1996 (07.05.1996), see entire document.	1-11
A	US 5,045,403 A (MAUS et al.) 03 September 1991 (03.09.1991), see entire document.	1-11
A	US 5,480,729 A (HATTORI et al.) 02 January 1996, (02.01.1996), see entire document.	1-11
A	US 5,866,230 A (MAUS) 02 February 1999 (02.02.1999), see entire document.	6-11

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

17 November 2004 (17.11.2004)

Date of mailing of the international search report

08 DEC 2004

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